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See Sheet 1A For Index of Sheets 794B **PROJECT** LOCATION VICINITY MAP N.T.S.

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

# HAYWOOD COUNTY

# R-5794B 44910.3.4

### LOCATION: HAYWOOD COUNTY

SITE 1 – US 19 (DELLWOOD ROAD) AND HOLSTON VILLAGE ROAD

SITE 2 – US 19 (DELLWOOD ROAD) AND SOUTH LAKESHORE DRIVE

SITE 3 – US 19/23 (CAROLINA BOULEVARD) AND SMATHERS STREET SITE 4 – US 19 /23 (CAROLINA BOULEVARD) AND U.S. POST OFFICE

SITE 5 - US 19 /23 (PARK STREET) AND MEDFORD STREET

SITE 6 – US 19 /23 WB (PARK STREET) AND SR 1942 (ADAMS STREET)

SITE 7 – US 19 /23 WB (PARK STREET) AND SR 1938 (ACADEMY STREET)

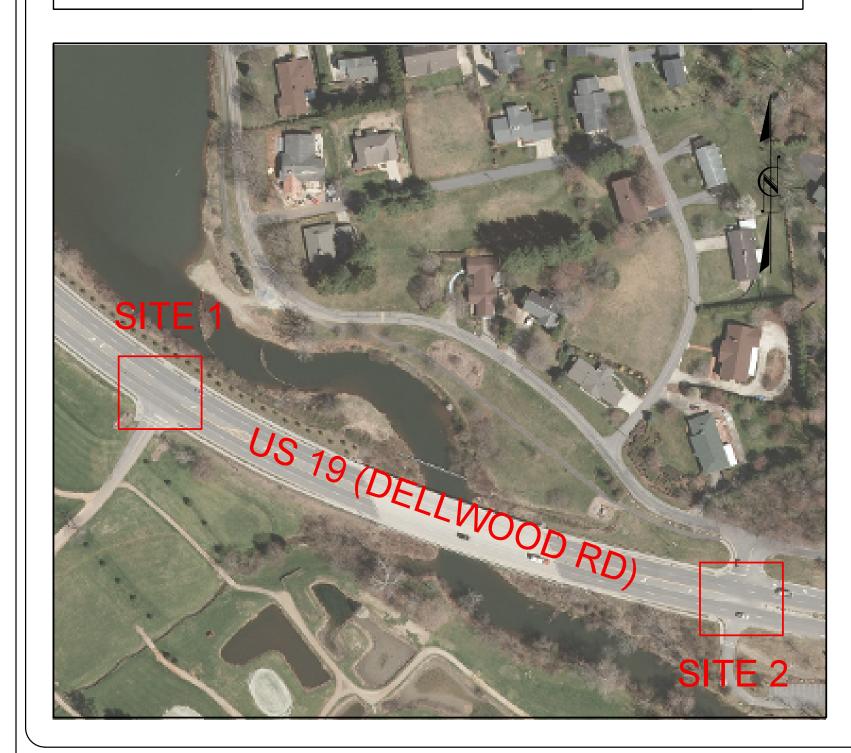
SITE 8 – US 19 /23 WB (PARK STREET) AND CABE STREET (CITY STREET)

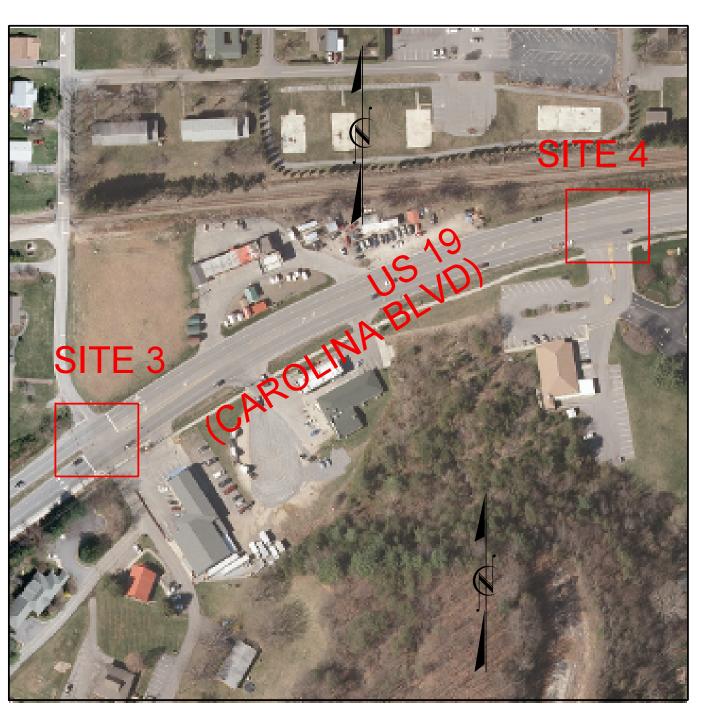
SITE 9 – US 19 /23 (CHURCH STREET) AND HAMPTON HEIGHTS

SITE 10 - SR 1642 (BRIDGE STREET) MIDBLOCK BETWEEN CHURCH STREET AND NEWFOUND STREET

SITE 11 - SR 1643 (BRIDGE STREET) AND NEWFOUND STREET

# TYPE OF WORK: CURB RAMPS









**GRAPHIC SCALES** 

**PLANS** 

**DESIGN DATA** 

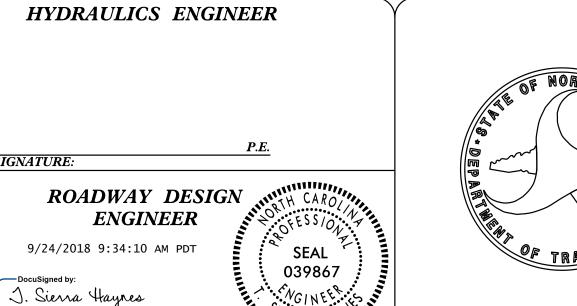
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> T = N/AV = VARIES

\* TTST = N/AFUNC CLASS = LOCAL PROJECT LENGTH

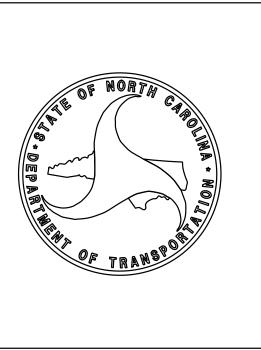
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WSP USA Inc. 1001 MOREHEAD SQUARE DRIVE Prepared in the Office of: CHARLOTTE, NC 28203 NC LIC. NO. F-0165 2018 STANDARD SPECIFICATIONS RIGHT OF WAY DATE: SIERRA HAYNES, PE PROJECT ENGINEER N/A LETTING DATE: PROJECT DESIGN ENGINEER **NOVEMBER 13, 2018** 



**SIGNATURE**:

**SIGNATURE**:



**DN00651** 

PROJECT REFERENCE NO. SHEET NO.

R-5794B

RW SHEET NO.

ROADWAY DESIGN
ENGINEER

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1. Sierra Haynes

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# INDEX OF SHEETS

SHFFT	NUMBER	SHEET
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TITLE SHEET

A INDEX OF SHEETS

2C-1 - 2C-3 RAMP DETAILS
4 - 6 PLAN SHEETS

/KENProjects/I188360-Ø3 NCDOT D14 ADA Curb Ramps/DGNNR5794B\_RDY\_PSH

SHEET 3 OF 3 848.05 
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 SHEET NO.

 R-5794B
 2C-1

 RW SHEET NO.

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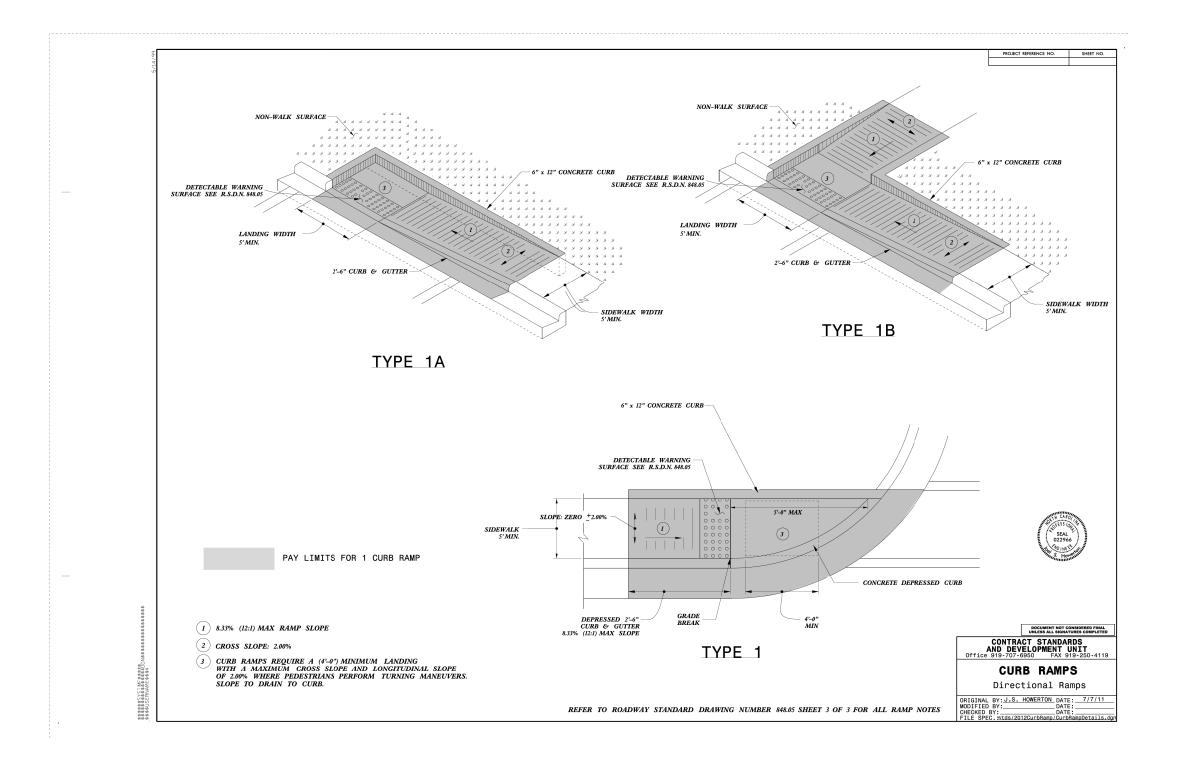
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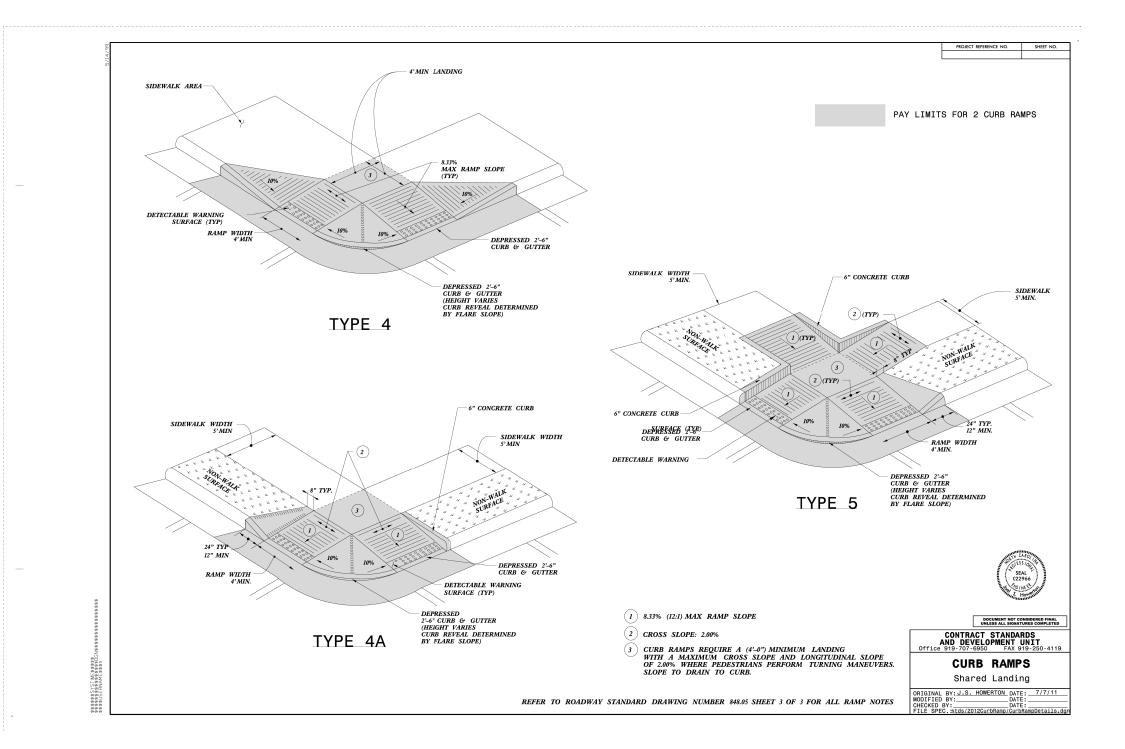
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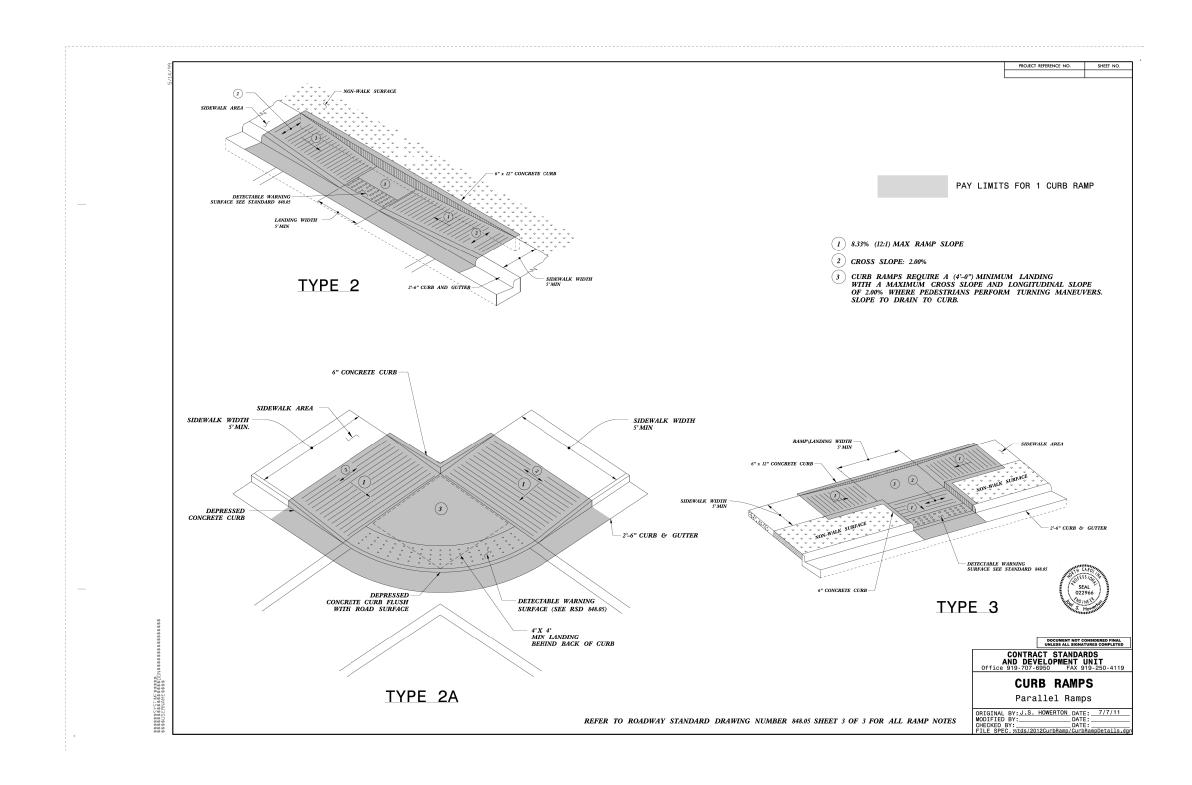
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Sierra Haynes

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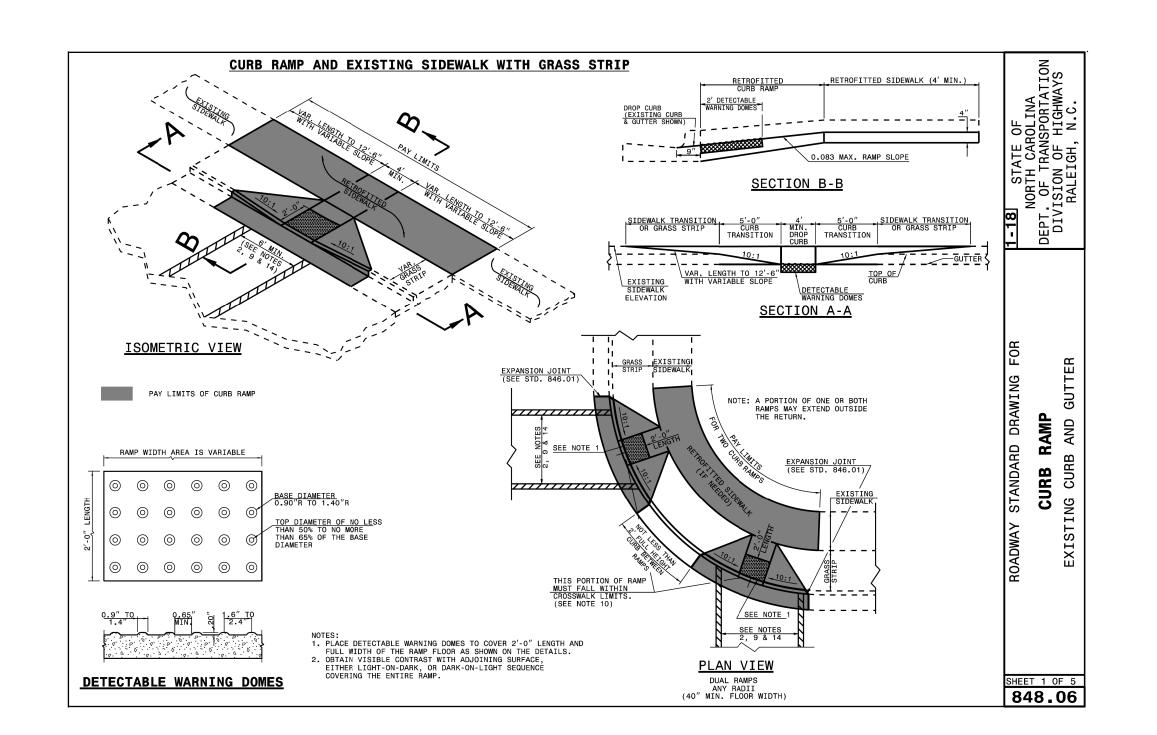
NOTES:				
1.	CONSTRUCT THE RAMP SURFACE TO BE STABLE, FIRM, AND SLIP RESISTANT. CONSTRUCT THE CURB RAMP TYPE AS SHOWN IN THE PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER.		NA ?TAT] HWAY	
2.	. LOCATE CURB RAMPS AND PLACE PEDESTRIAN CROSSWALK MARKINGS AS SHOWN IN THE PAVEMENT MARKING PLANS. WHEN FIELD ADJUSTMENTS REQUIRE MOVING CURB RAMPS OR MARKINGS AS SHOWN, CONTACT THE SIGNING AND DELINEATION UNIT OR LOCATE AS DIRECTED BY THE ENGINEER.		SOLI ISPOF HIG	
3.	COORDINATE THE CURB RAMP AND THE PEDESTRIAN CROSSWALK MARKINGS SO A 4'x4' CLEAR SPACE AT THE BASE OF THE CURB RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES.	TATE	H RAIN	IGH
4.	SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL LANE IS 4' MINIMUM.	S	NORTI OF	RALE
5.	REFER TO THE PAVEMENT MARKING PLANS FOR STOP BAR LOCATIONS AT SIGNALIZED INTERSECTIONS. IF A PAVEMENT MARKING PLAN IS NOT PROVIDED, CONTACT THE SIGNAL DESIGN SECTION FOR THE STOP BAR LOCATIONS OR LOCATE AS DIRECTED BY THE ENGINEER.	- 18	DEPT.	,
6.	TERMINATE PARKING A MINIMUM OF 20' BACK OF A PEDESTRIAN CROSSWALK.			
7.	CONSTRUCT CURB RAMPS A MINIMUM OF 4' WIDE.			
8.	CONSTRUCT THE RUNNING SLOPE OF THE RAMP 8.33% MAXIMUM.			ĺ
9.	ALLOWABLE CROSS SLOPE ON SIDEWALKS AND CURB RAMPS WILL BE 2% MAXIMUM.			
10.	CONSTRUCT THE SIDE FLARE SLOPE A MAXIMUM OF 10% MEASURED ALONG THE CURB LINE.	FOR		
11.	CONSTRUCT THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE BASE OF THE CURB RAMP A MAXIMUM OF 5% AND MAINTAIN A SMOOTH TRANSITION.	ING		
12.	CONSTRUCT LANDINGS FOR SIDEWALK A MINIMUM OF $4'x4'$ WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION. CONSTRUCT LANDINGS FOR MEDIAN ISLANDS A MINIMUM OF $5'x5'$ WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.	DRAWING	AMPS	
13.	TO USE A MEDIAN ISLAND AS A PEDESTRIAN REFUGE AREA, MEDIAN ISLANDS WILL BE A MINIMUM OF 6' WIDE. CONSTRUCT MEDIAN ISLANDS TO PROVIDE PASSAGE OVER OR THROUGHT THE ISLAND.	ARD	<b>∝</b>	NOTES
14.	SMALL CHANNELIZATION ISLANDS THAT CAN NOT PROVIDE A 5'X5' LANDING AT THE TOP OF A RAMPS, WILL BE CUT THROUGH LEVEL WITH THE SURFACE STREET.	STANDARD	CURB	ž
15.	CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP. THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE OR THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED.		0	
16.	PLACE A 1/2" EXPANSION JOINT WHERE THE CONCRETE CURB RAMP JOINS THE CURB AS SHOWN IN ROADWAY STANDARD DRAWING 848.01	ROADWAY		
17.	PLACE ALL PEDESTRIAN PUSH BUTTON ACTUATORS AND CROSSING SIGNALS AS SHOWN IN THE PLANS OR AS SHOWN IN THE MUTCD.	~		
18.	CURB RAMPS THROUGH MEDIAN ISLANDS, SINGLE RAMPS AT DUAL CROSSWALKS OR LIMITED R/W SITUATIONS, WILL BE HANDLED BY SPECIAL DETAILS. CONTACT THE CONTRACT STANDARDS AND DEVELOPMENT UNIT FOR THE DETAILS OR FOR A SPECIAL DESIGN.			

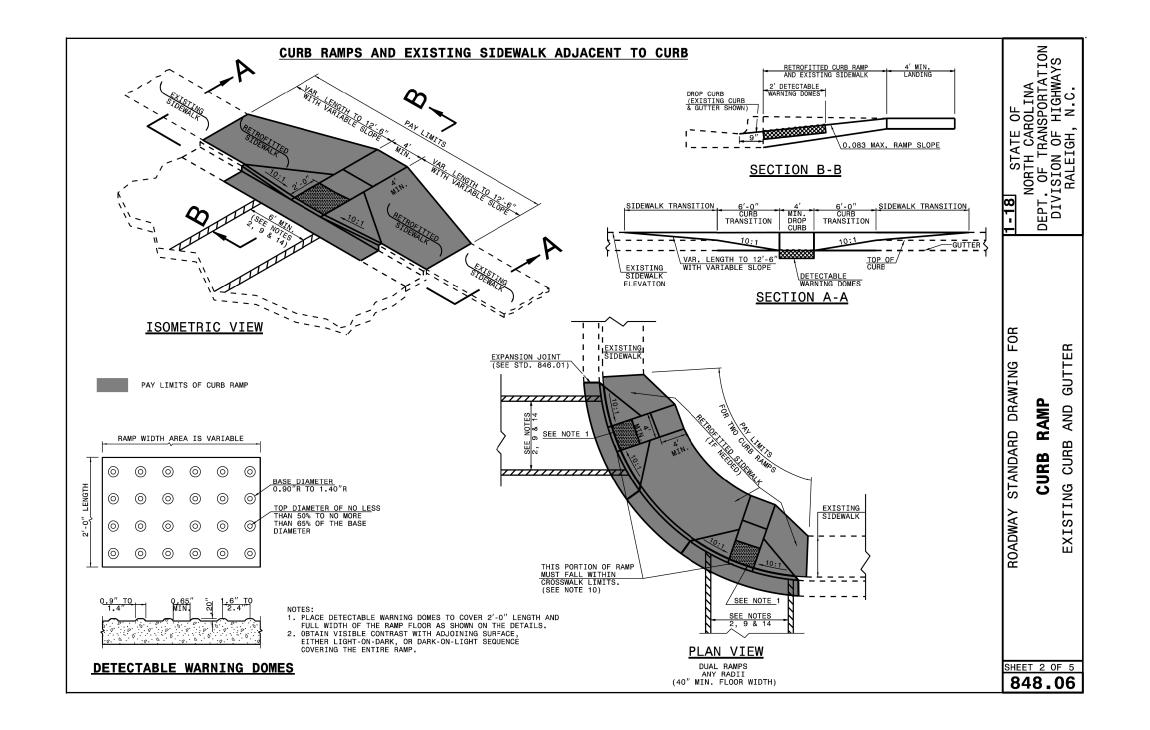
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**UNLESS ALL SIGNATURES COMPLETED** 





# CURB RAMPS AND EXISTING SIDEWALK ===# — SEE NOTE 4 SEE NOTE 10-STOP LINE SEE NOTE 4 -STOP LINE —SEE NOTE 10 ===== , – – – – – DETAIL SHOWING TYPICAL LOCATION OF CURB RAMPS, PEDESTRIAN CROSSWALKS AND STOP LINES FOR TEE INTERSECTIONS DETAIL SHOWING TYPICAL LOCATION OF CURB RESURFACING PROJECTS PROPOSED CURB RAMP W/ LANDING FOR RESURFACING PROJECTS ALLOWABLE LOCATIONS DUAL RAMP RADII.....ANY \_\_\_ EXISTING SIDEWALK 848.06

### **CURB RAMP AND EXISTING SIDEWALK**

1. CONSTRUCT THE RAMP SURFACE TO BE STABLE, FIRM, AND SLIP RESISTANT. CONSTRUCT THE CURB RAMP TYPE AS SHOWN IN THE PAVEMENT MARKING

2. LOCATE CURB RAMPS AND PLACE PEDESTRIAN CROSSWALK MARKINGS AS SHOWN IN THE PAVEMENT MARKING PLANS. WHEN FIELD ADJUSTMENTS REQUIRE MOVING CURB RAMPS OR MARKINGS AS SHOWN, CONTACT THE SIGNING AND DELINEATION UNIT OR LOCATE AS DIRECTED BY THE ENGINEER. 3. COORDINATE THE CURB RAMP AND THE PEDESTRIAN CROSSWALK MARKINGS SO A 4'x4' CLEAR SPACE AT THE BASE OF THE CURB RAMP WILL FALL

4. SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL LANE IS 4' MINIMUM.

5. REFER TO THE PAVEMENT MARKING PLANS FOR STOP BAR LOCATIONS AT SIGNALIZED INTERSECTIONS. IF A PAVEMENT MARKING PLAN IS NOT PROVIDED, CONTACT THE SIGNAL DESIGN SECTION FOR THE STOP BAR LOCATIONS OR LOCATE AS DIRECTED BY THE ENGINEER.

6. TERMINATE PARKING A MINIMUM OF 20' BACK OF A PEDESTRIAN CROSSWALK.

7. CONSTRUCT CURB RAMPS A MINIMUM OF 4' WIDE.

WITHIN THE PEDESTRIAN CROSSWALK LINES.

8. CONSTRUCT THE RUNNING SLOPE OF THE RAMP 8.33% MAXIMUM.

9. ALLOWABLE CROSS SLOPE ON SIDEWALKS AND CURB RAMPS WILL BE 2% MAXIMUM.

10. CONSTRUCT THE SIDE FLARE SLOPE A MAXIMUM OF 10% MEASURED ALONG THE CURB LINE.

11. CONSTRUCT THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE BASE OF THE CURB RAMP A MAXIMUM OF 5% AND MAINTAIN A

MEDIAN ISLANDS A MINIMUM OF 5'x5' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.

12. CONSTRUCT LANDINGS FOR SIDEWALK A MINIMUM OF 4'x4' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION. CONSTRUCT LANDINGS FOR

13. TO USE A MEDIAN ISLAND AS A PEDESTRIAN REFUGE AREA, MEDIAN ISLANDS WILL BE A MINIMUM OF 6' WIDE. CONSTRUCT MEDIAN ISLANDS TO PROVIDE PASSAGE OVER OR THROUGHT THE ISLAND.

14. SMALL CHANNELIZATION ISLANDS THAT CAN NOT PROVIDE A 5'X5' LANDING AT THE TOP OF A RAMPS, WILL BE CUT THROUGH LEVEL WITH THE SURFACE STREET.

15. CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP. THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE OR THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED.

16. PLACE A 1/2" EXPANSION JOINT WHERE THE CONCRETE CURB RAMP JOINS THE CURB AS SHOWN IN ROADWAY STANDARD DRAWING 848.01 17. PLACE ALL PEDESTRIAN PUSH BUTTON ACTUATORS AND CROSSING SIGNALS AS SHOWN IN THE PLANS OR AS SHOWN IN THE MUTCD.

18. CURB RAMPS THROUGH MEDIAN ISLANDS, SINGLE RAMPS AT DUAL CROSSWALKS OR LIMITED R/W SITUATIONS, WILL BE HANDLED BY SPECIAL DETAILS.

CONTACT THE CONTRACT STANDARDS AND DEVELOPMENT UNIT FOR THE DETAILS OR FOR A SPECIAL DESIGN.

848.06

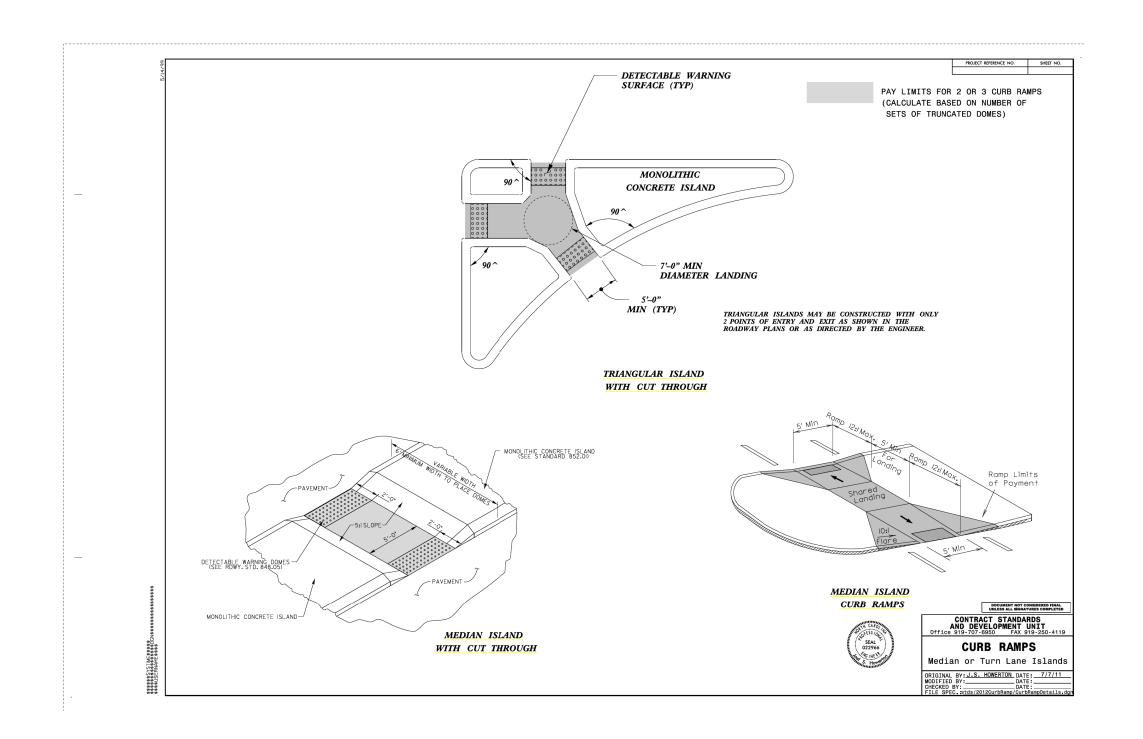
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■ 1001 MOREHEAD SQUARE DRIVE SUITE 610 CHARLOTTE, NC 28203 NC LIC. NO. F-0165

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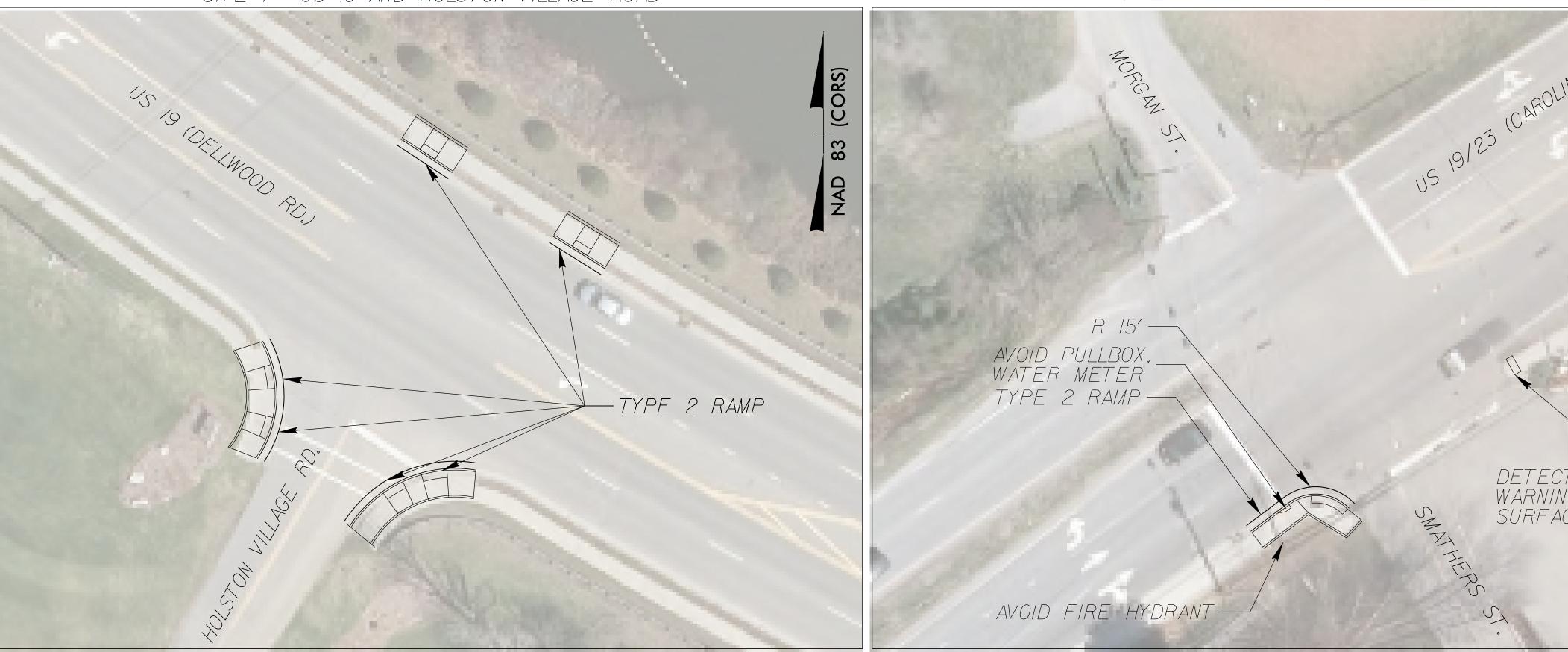
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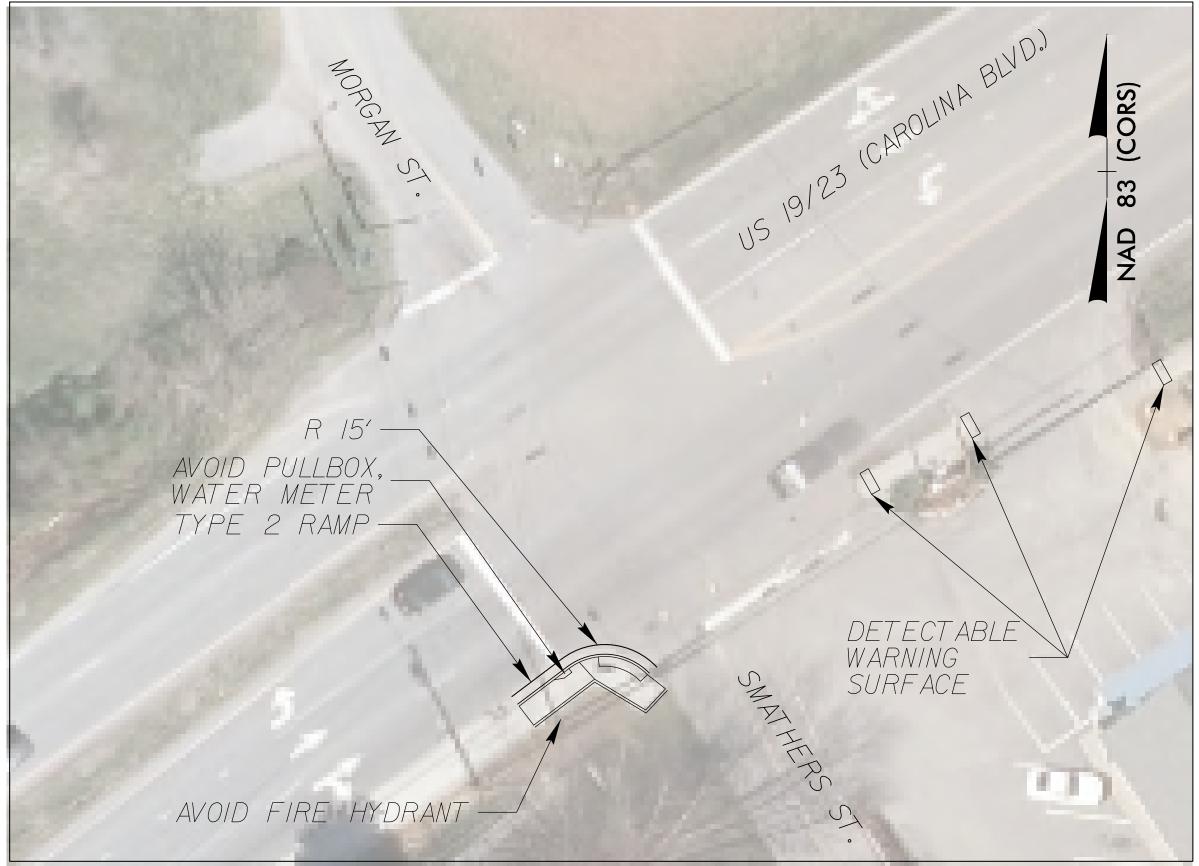


# SITE PLAN SHEETS

SITE I - US 19 AND HOLSTON VILLAGE ROAD

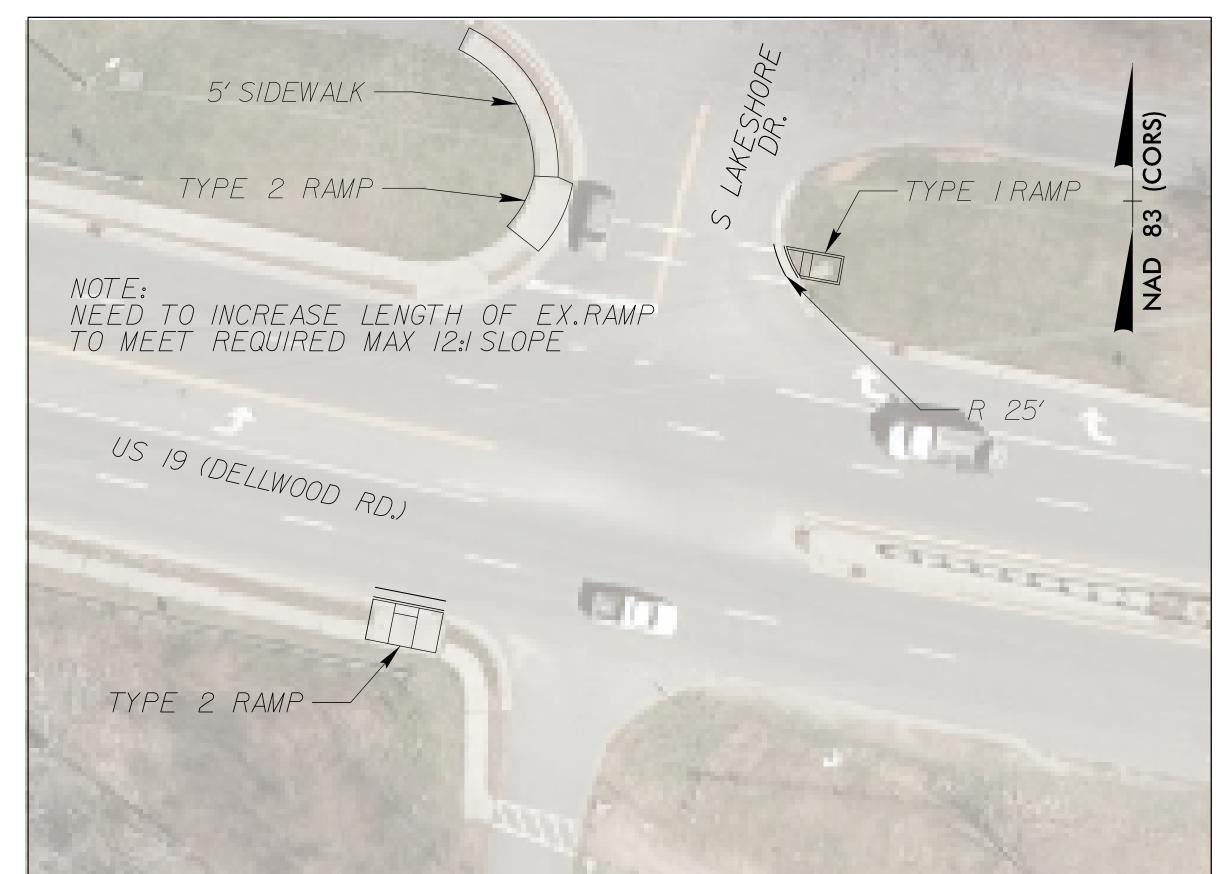


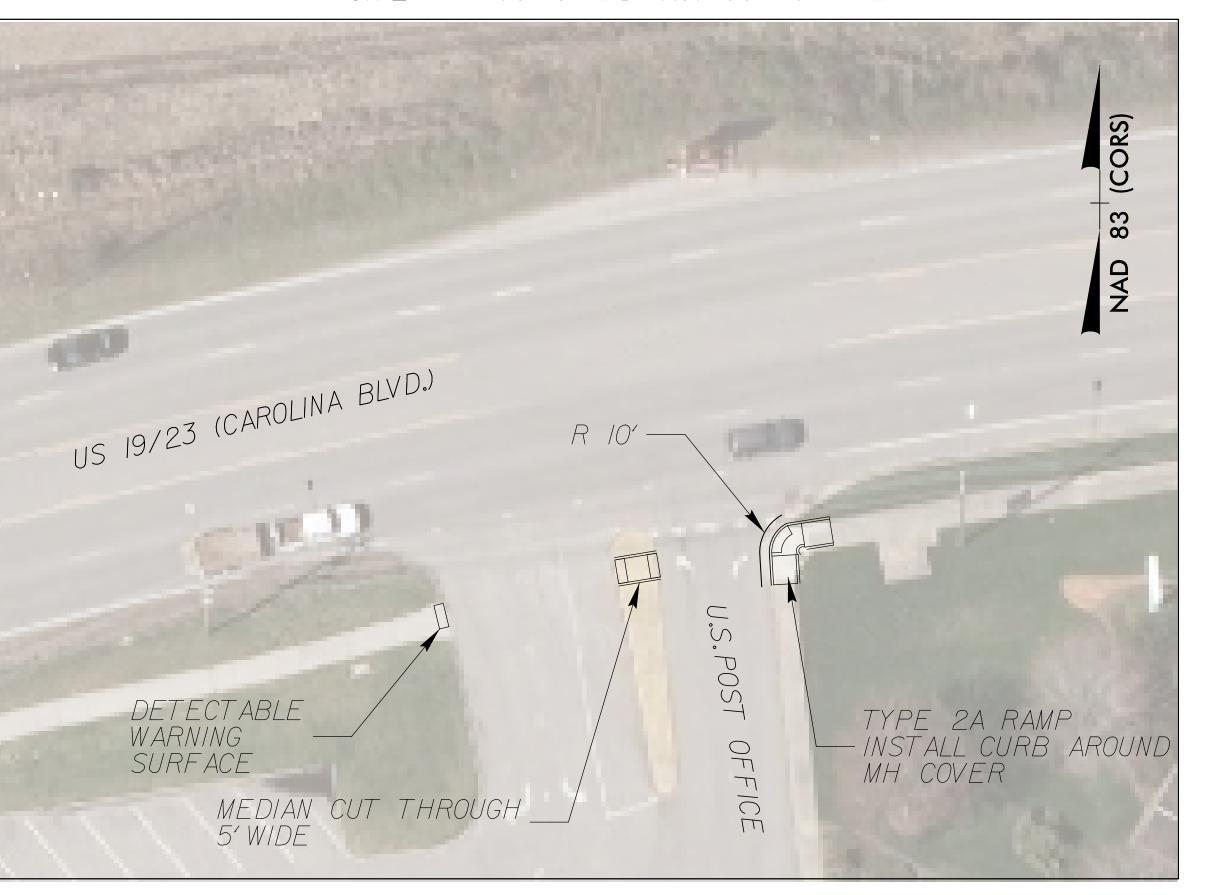




SITE 2 - US 19 AND SOUTH LAKESHORE DRIVE

SITE 4 - US 19 AND U.S.POST OFFICE





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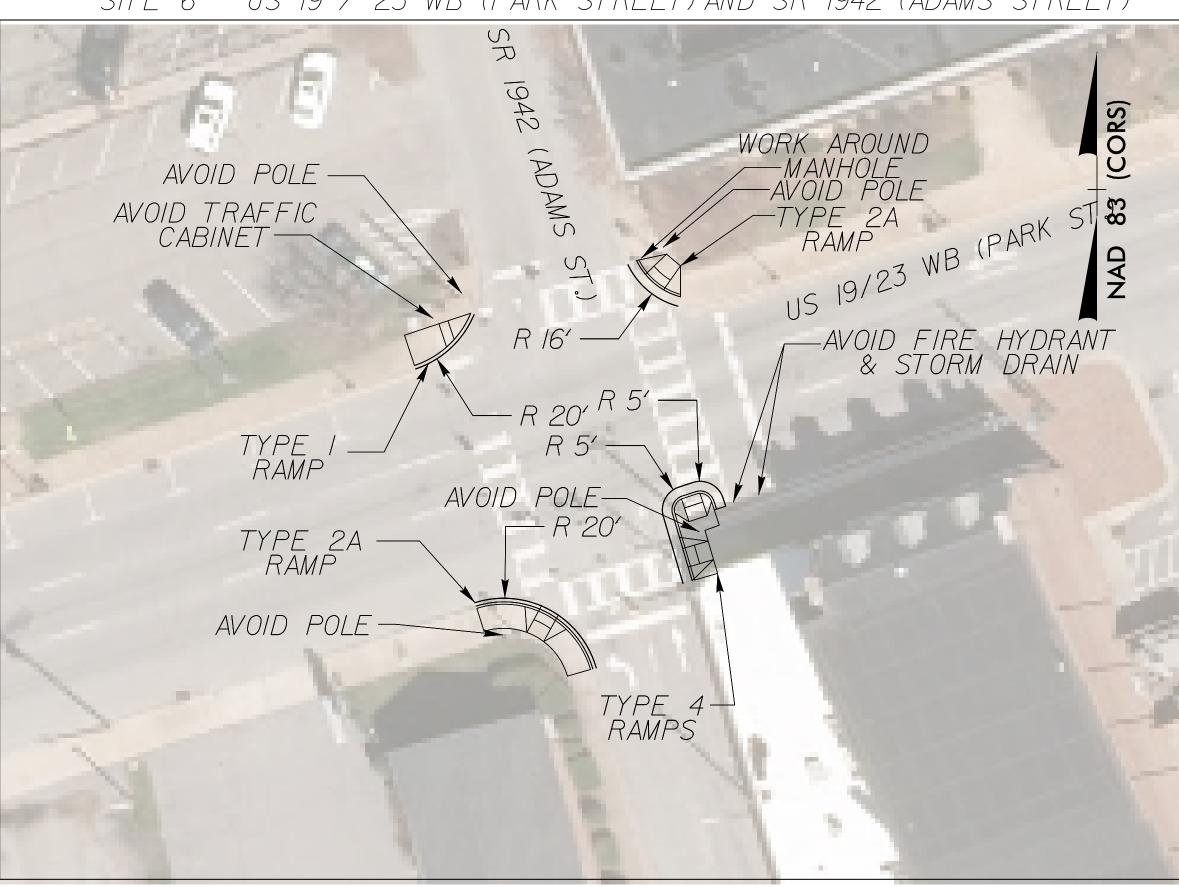
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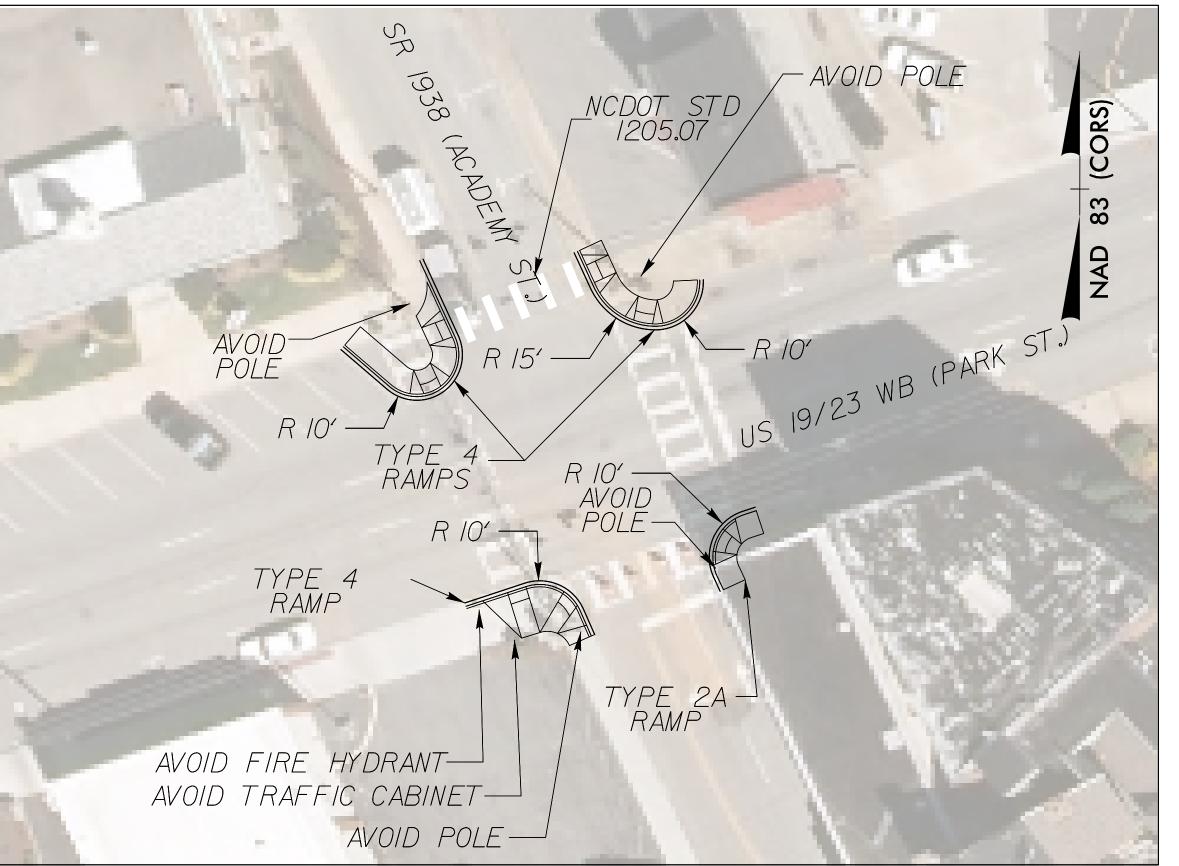
GRAPHIC SCALE

HYDRAULICS ENGINEER



SITE 7 - US 19/23 WB (PARK STREET) AND SR 1938 (ACADEMY STREET)





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GRAPHIC SCALE

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# SITE PLAN SHEETS

SITE 8 - US 19/23 WB AND CABE STREET

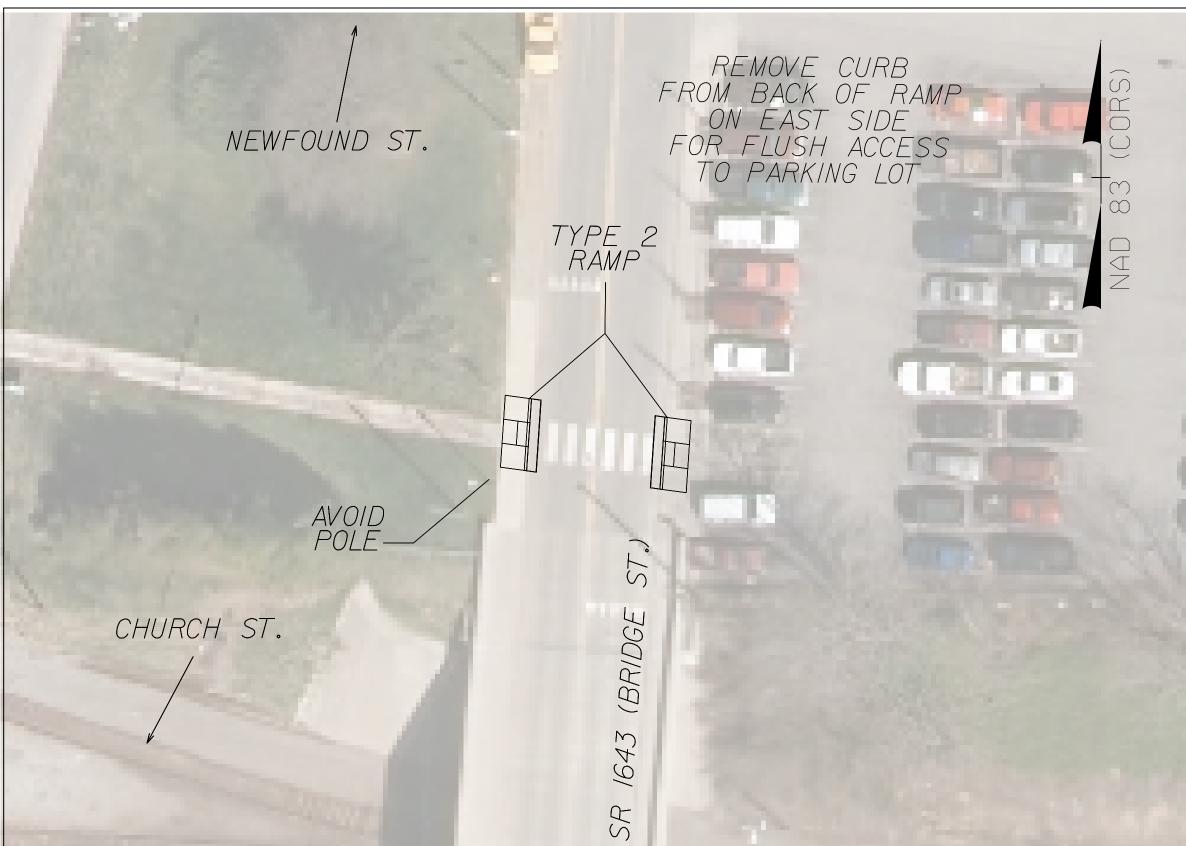
- TYPE / RAMP

5' SIDEWALK CURB BUMPOUT

CROSSWALK —

TYPE 2 RAMP —

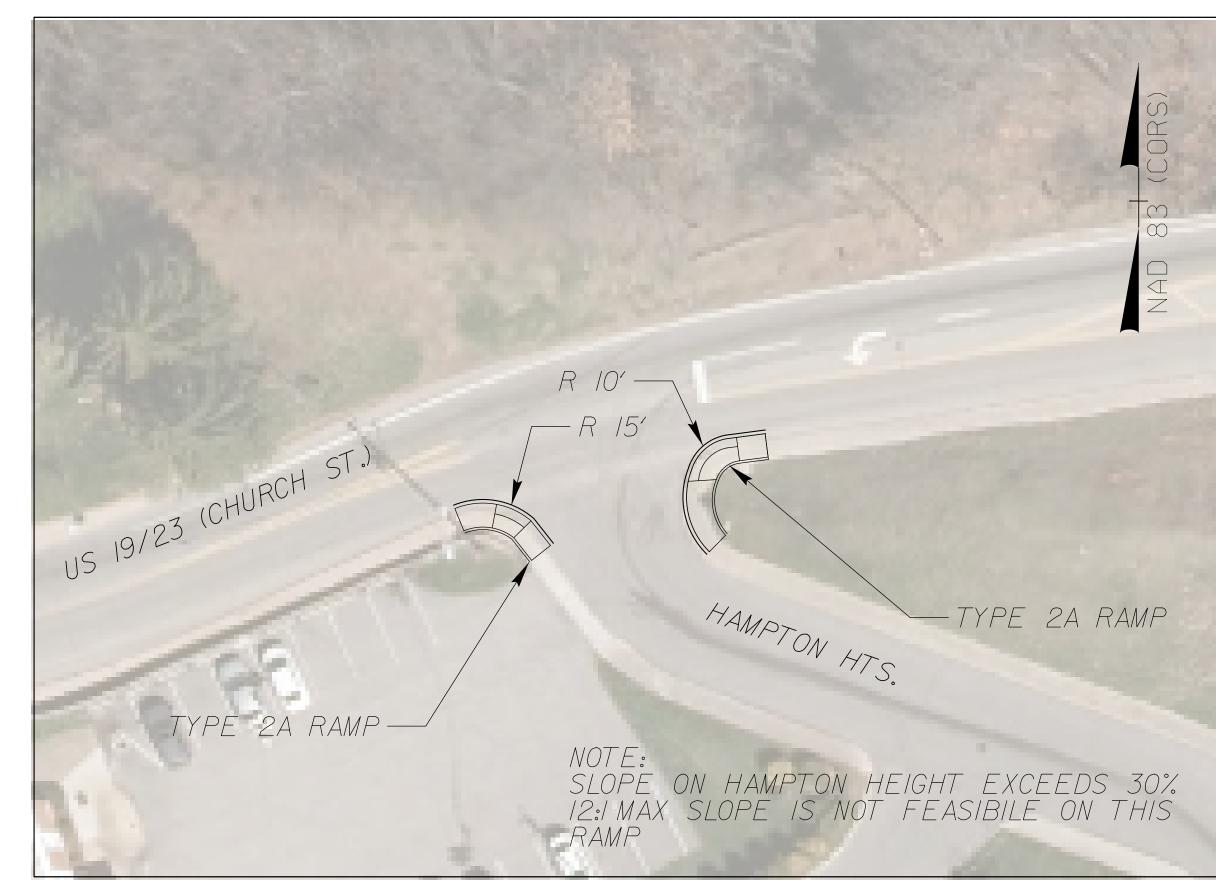
SITE 10 - SR 1643 (BRIDGE STREET) AND MIDBLOCK BETWEEN CHURCH STREET & NEWFOUND STREET

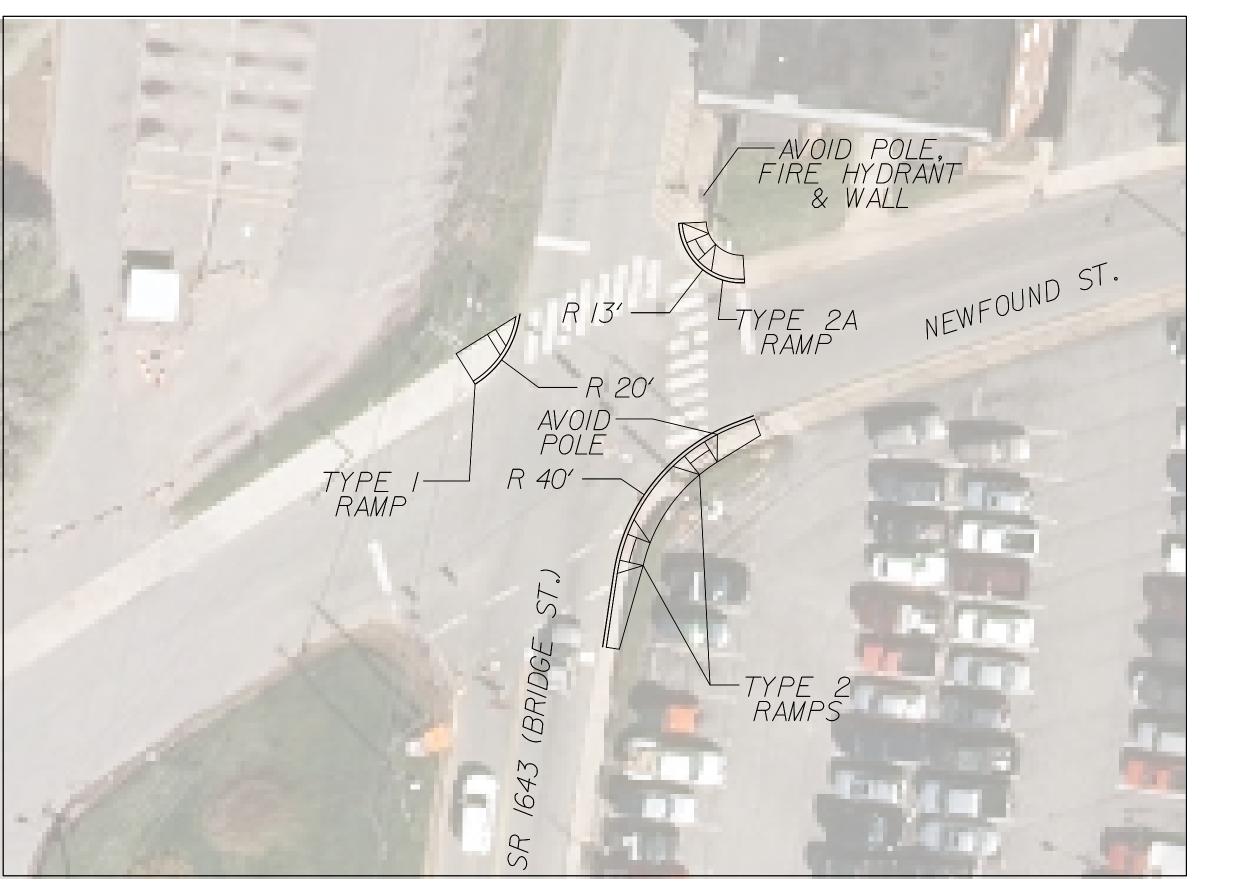


SITE 9 - US 19/23 AND HAMPTON HEIGHTS

R 10' —







PROJECT REFERENCE NO

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ROADWAY DESIGN ENGINEER

R/W SHEET NO.

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GRAPHIC SCALE

SHEET NO.

HYDRAULICS ENGINEER

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